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PATENT ABSTRACTS OF JAPAN

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(54) POLYTHIOL

(57) Abstract:

NEW MATERIAL: A polythiol
expressed by the formula (X and Y
are O or S; m and n are 1 W3; p is 1
or 2).

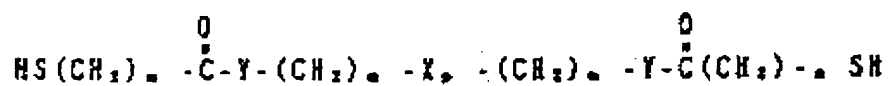
EXAMPLE: Diethylene glycol bis(2-
mercaptoacetate).

USE: Useful as a polymerization
regulator, raw material for synthetic
resins, crosslinking agent,
vulcanizing agent, curing agent for
epoxy resins, agent for forming
metallic complexes, biochemical drug
and additive for lubricating oils.
Especially, sulfur-containing
polyurethane resins obtained by
thermally polymerizing a
polyisocyanate, such as xylylene
diisocyanate, isophorone diisocyanate
or hexamethylene diisocyanate, have
a high-degree refractive index and
low decomposability and excellent
other various physical properties and
are useful as optical parts, etc.

PREPARATION: A raw material
alcohol or thiol is reacted with

thioglycolic acid mercaptopropionic acid, etc., in the presence of, e.g. an acid catalyst, and the reaction solution is neutralized after the reaction to afford the aimed compound expressed by formula I.

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